1979 B

UNITED STATES
DEPARTMENT OF THE INTERIOR

DI-6

APPROVED DECEMBER 1941

[redacted] 10/12/79

Drewrey's Bluff
J. Skog B. Tiffany, K. Niklas
S. Mazer, J. McClammer, A. Powell

79-100 A -
Quercophyllum
2 leaves
Counterpart for Karl.

Angiosperms in unctuous carb, brownish grey ~~shale~~ clay immediately above coarse Arkosic ss.

Quercophyllum
Thyrsopteris
Cone of a taxodioid conifer
Sphenolepidium.

Clays in stair stringer in a med. salty sequence. Sand contains lenses of conglomerate frequently immediately below this clay containing angiosperm remains.

Karl Niklas took samples for chemical analysis. 79-100 A.

Judy Skog, Susan Mazer, Bruce Tiffany
Karl Niklas, Jim McClammer, Arnold Powell
Drewrey's Bluff quadrangle

79-101 10/13/79

CANNON Creek in Richmond VA

Same group as 10/12 less J. SKOG

CALVERT Fm. in a pit E of road & immediately S of the wall of Holy Cross Cemetery

Bone
Turritella
seeds
leaf.
LIGNITIZED WOOD

IN a THN fissle, SILTY CLAY.

MATERIAL bagged for MACERATION. at yale.

PIT w upp 30' of CALVERT exp. basal 10' SILTY THN CLAY THN 20' dense med grey CLAY.

10/14/79

79-102 West Brothers Brick Pit
P. C. & Cool.
J. McClammer, K. Niklas, B. Tiffany,
S. Mazer, A. Powell

Excellent collecting
Stipindopsis n. sp.
incl. broad terminal
leaflets
Good for chemical sampling

Narrow spp. lf. w pom-pom
fruiting head found.

Sphenolepidium foliage.

K. Niklas chemical sampling.

WASHINGTON EAST QUAD.

©

79-103 Malden Mt. Oct. 15, 1979
Eastville 7½ Quad
Malden Mt. - on Elk Neck - Cecil Co., Md.
SW nose of Malden Mt. at
cliff w Chesapeake Bay abt
150 feet above the beach.
w/ d. Powell.

Potomac Fm. ~~in a~~
~~5' bed of sand in a~~
~~grey arenaceous clay lens~~

Fossil leaves:
Andromeda parlatorii
Sapindopsis (red pl. type)
Thuiadropsis
Large w/ Sapindalean teeth
Many others

4/n a 5' lens of med. grey ~~sand~~
arenaceous clay in a
f.-g.-l. yellowish grey, tabular x-
bedded ss. Lens is about
20' in lateral extent.
Top of lens abt 10' below a
prominent 10' bed of iron cemented
Conglomerate

Clay: Arenaceous, med. grey, w/
rare stringers of silt & sand
Fos. occur abt. 9" below top of
lens between 2 prominent stringers of
carbon debris. abt 8" apart.
Scattered leaves occur below this
main layer for at least 3' feet.

Leads between the Carbon, Lower Sturgis occur in a solid mat. and hard organic mineralization

Earlesville 7½ Min Quad.

1320' S. of N bdy
4610' E of W bdy

10/29/74

79104 COCKPIT POINT - Mason Neck
Off Dunaton Core, Fairfax Co. Va.

3' Med Arkosic SS.
X bedded -
Green silty clay
mottled w red.

Potomac Fm. Patapsco equivalent

Ft. Belvoir 7½" Quad.
3280 m W of E bdy
5290 m N of S bdy

Steep cliff at and to 10' above
mean high water

Green clay as mentioned by Hazel
No fossil pls.

WF A. Powell, J. Sharp, ad.

79105 Rosier Pt. 10/29/79
Alex Quade

PLAT leaf SILTY CLAY
1 AT BASE OF CUT
BANK 3' above
MHW

Potomac Group - Patapsco Fm.

Platanoid leaf in a silty clay
at base of cut bank
3' above m.h.w.

Alexandria 7½" Quadrangle
2670 m ± W of E bdy
2460 m N of S bdy

Short leg of Rosier Bluff has been
rip-rapped to within 150 m.
N of Fort Foote Light. This has
resulted in stabilization and
overgrowth of old Potomac sand
cliffs.

On bluff below Fort Foote
limited exposures of x-bedded
sand w some clays & silts but
no fossil plants.

10/29/79

79106 Indian Queen Bluff
W. J. Hoyt, A. Powell
Lt gy Sand w CLAY interbeds
2' above MHW.

Sand.
Dist
Nebulitic ca[illegible]

very fine
shelly cross

Potomac Gr. - Patapsco Fm

a light grey sand w thin clay interbeds. Fossil leaves occur in mats on clay thin clay interbeds in the ss. Leaves show some disruption.

2a. Occur ~~at~~ at m. HW + 6" above

Exposures E. of here into Broad Creek separated by low lushing fresh forest

10/24

79107 Pr. Georges Yacht Club
Potwt B
Calvert or Aquia on
wh. KP

KP Red & grey mottled
clay Patapsco

T Calvert or Aquia

4' of lay gravel
in dark grey silt
matrix.
Jarosite & Gypsum in
Dark grey silt.

79107 Bluff S.E. of Fort Washington
P.G. Co. Md.
W. A. Powell, J. Skoc
10' ~~Dk~~ Weathered Patapsco Clay
~~&~~ Unconformably overlain by
17' Dark grey Monmouth Fm.
Basal 1-3' Gravel bed
w/ vein qtz pebbles. Dark
grey, silty, outer part w
gypsum & Jarosite.

No plants.

Mt. Vernon 7½ Quad.
2630 m W of E bdy
5140 m S of N bdy

p 11, Ref Glaser, J.D. 1971, Geol. & Min. Res. of
Southern Md. Md. Geol Sur. Rpt. of Inv. #15

10/29/79

79108 Just up from MT Vernon 1/8 mile.
Bluff of Potomac River 0.3 mi E of MT Vernon MANSION.
SILTY
White SAND w/ CLAY
BARREN.

79109 Crawfish Splay
Channel deposits
w INTERBEDDED CLAYS
Some Conifer MATERIAL
Comminuted

Cone SCALE

Bluff of MT VERNON ESTATE, 140 m downSTREAM from MARKER STONE 55 of Va, Md. Border.
MT. VERNON 7½" Quad.
3770 m E of W bdy
4620 m S of N bdy

In general no good
but bluffs & cliffs to S. of here should be carefully worked to vic. of STONE 54 at Ferry POINT.

10/29

79109 Cliffs of a bluff immediately S. of an unnamed drainage forming the SW bdy of the Mt. Vernon property 260 m. downstream from Mt. Vernon landing

Crevasse splay & channel ss deposits light grey.

At base of an 8" clay bed abt. 2' above cliff base is a comminuted hash of plant debris, mainly conifers

One cone scale kept

Mt. Vernon Quad 7½"

2940 m E of W Bdy
5100 m S of N Bdy